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|---|--|--|---------------|
|   | Application No.  | Applicant(s)   |               |
| Notice of Allowability  | 10/770,014   | OMURA ET AL.   |               |
|   | Examiner   | Art Unit   |               |
|   | Fetsum Abraham   | 2826   |               |
| The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI  | (OR REMAINS) CLOSED in<br>or other appropriate communication is su   | this application. If not included nication will be mailed in due course.   |               |
| 1. X This communication is responsive to the remarks recorded   | on 4/22/05.  | ·  |               |
| 2. X The allowed claim(s) is/are 4.8.12.16.20.24.28.32.36.39-4  | <u>1 and 45</u> .  |  |               |
| 3. X The drawings filed on 03 February 2004 are accepted by the   | ne Examiner.   |  |               |
| 4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have  2.  Certified copies of the priority documents have  3.  Copies of the certified copies of the priority documents have  1.  Certified copies of the priority documents have  1.  Certified copies not received:  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give  1.  CORRECTED DRAWINGS (as "replacement sheets") must  (a)  including changes required by the Notice of Draftspers  1.  Paper No./Mail Date  1. | e been received. e been received in Application cuments have been received of this communication to file MENT of this application.  eitted. Note the attached EXA es reason(s) why the oath or set be submitted. Son's Patent Drawing Review as Amendment / Comment or .84(c)) should be written on the header according to 37 CFI seit of BIOLOGICAL MATE | in No. 09/892,545.  In this national stage application from a reply complying with the requirement of the complying of | ots<br>DF     |
| Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  | 6. ☐ Interview Su<br>Paper No./I<br>98), 7. ☑ Examiner's /   | ormal Patent Application (PTO-152) mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance   |               |

## **Examiner's Comment**

The restriction imposed on the claims on 7/13/05 has been withdrawn.

## Statement of reasons for allowance

Claims 4,8,12,16,20,24,28,32,36,39,40,41,45 have been allowed.

Although vertical transistors with control electrodes in trenches have been known in the art, and specifically PN: 6,677,641 could be considered closely related art in that it is a power MOSFET provided with electrodes (236, 214, a, b) in a single trench and circumscribed with a single continuous insulation material, the claimed power semiconductor structure having a drift, a well, and first and second trenches provided with a buried and control electrodes through first and second insulation layers and the claimed electrode configuration having characterized by said first and second electrodes as connected to the claimed elements of the overall structure and specially the source electrode in connection with the well region and the buried electrode inside the first trench and under the control electrode has not been taught or rendered obvious by the prior arts.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PN: 6,906,380: 6,677,641: 6,784,488.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fetsum Abraham whose telephone number is: 571-272-1911. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Nathan J Flynn cap be reached on 571-272-1915.

Retsum Abraham

8/15/05